

# Converting Colors

$Yxy(44.9855, 0.2259, 0.2832)$

Have a look what the booklet for  
Yxy(44.9855, 0.2259, 0.2832)  
contains.

<b>Yxy(44.8848, 0.2258, 0.2828)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(44.8848, 0.2258, 0.2828)**

# Conversions

## Conversions Part 1

Format	Color
Hex	51C0E1
RGB	81, 192, 225
RGB Percent	32%, 75%, 88%
CMY	0.6819, 0.2471, 0.1177
CMYK	0.64, 0.15, 0.00, 0.12
HSL	194°, 71%, 60%
HSV	194°, 64%, 88%
XYZ	35.8380, 44.8848, 77.9929
YIQ	162.5730, -76.7490, -13.2690

# Conversions

## Conversions Part 2

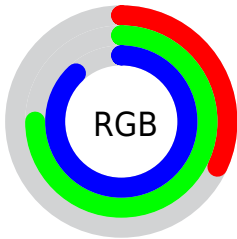
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	81, 144, 225
Decimal	5357793
CIE Lab	72.82, -21.61, -25.82
CIE LCh	73, 33.666, 230.073
Yxy	44.8848, 0.2258, 0.2828
Android (android.graphics.Color)	4283547873 (0xFF51C0E1)
YUV	162.5730, 30.7765, -71.5395
Hunter-Lab	66.9961, -21.7588, -22.1246

# Details

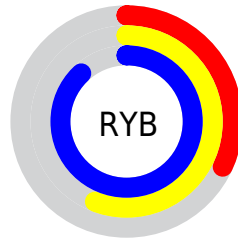
The Yxy color **44.8848, 0.2258, 0.2828** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light muted cyan. A complement of this color would be **28.6573, 0.4911, 0.3649**, and the grayscale version is **36.3080, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.9007, 0.2525, 0.3220**, and **21.0792, 0.2078, 0.2680** is the 20% darker color. If you saturate the color by 10%, you get **41.8245, 0.2171, 0.2743**, and if you desaturate by 10%, it is **48.3570, 0.2363, 0.2911**.

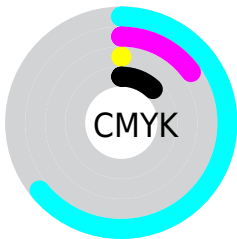
# Distribution



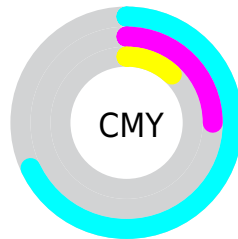
- Red (32%)
- Green (75%)
- Blue (88%)



- Red (32%)
- Yellow (56%)
- Blue (88%)



- Cyan (64%)
- Magenta (15%)
- Yellow (0%)
- Black (12%)




- Cyan (68%)
- Magenta (25%)
- Yellow (12%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 44.8848, 0.2258, 0.2828 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 44.8848, 0.2258, 0.2828 by changing the saturation by 10% instead.





 44.8848, 0.2258,  
0.2828

 44.8848, 0.2258,  
0.2828


366.3068, 0.2678,  
0.3069


 31.3667, 0.2159,  
0.2766


 82.5475, 0.2407,  
0.2917

 20.8782, 0.2035,  
0.2686


 107.4609, 0.2464,  
0.2950

 13.0350, 0.1876,  
0.2579


 136.9415, 0.2513,  
0.2978

 7.4527, 0.1668,  
0.2429

 171.3738, 0.2555,  
0.3001

 3.7468, 0.1387,  
0.2210

211.1420, 0.2592,  
0.3022

 1.5329, 0.1000,  
0.1867

256.6307, 0.2624,

 0.3117, 0.0000,

0.3039

0.1038

308.2241, 0.2653,  
0.3055

0.0000, 0.0000,  
0.0000

44.8848, 0.2258,  
0.2828

44.8848, 0.2258,  
0.2828

41.8245, 0.2171,  
0.2743

48.3570, 0.2363,  
0.2911

39.1365, 0.2104,  
0.2658

52.2664, 0.2485,  
0.2992

36.7804, 0.2056,  
0.2573

56.6414, 0.2619,  
0.3069

35.4745, 0.2034,  
0.2522

61.5064, 0.2763,  
0.3140

66.8840, 0.2913,  
0.3207

■ 72.7952, 0.3066,  
0.3268

■ 79.2595, 0.3220,  
0.3323

■ 85.1204, 0.3330,  
0.3373

■ 88.0882, 0.3324,  
0.3423

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



44.8848, 0.2376, 0.3238



44.8848, 0.2258, 0.2828



44.8848, 0.2347, 0.2585

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



44.8848, 0.2258, 0.2828



44.8848, 0.3548, 0.2910



44.8848, 0.3596, 0.4148

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



44.8848, 0.2258, 0.2828



28.6573, 0.4911, 0.3649

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



44.8848, 0.3949, 0.3972



44.8848, 0.2258, 0.2828



44.8848, 0.3933, 0.3261

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



44.8848, 0.2258, 0.2828



44.8848, 0.3063, 0.2650



44.8848, 0.4080, 0.3641



44.8848, 0.3133, 0.4064



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



44.8848, 0.2258, 0.2828



44.8848, 0.2516, 0.2528



44.8848, 0.4080, 0.3641



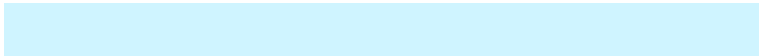
44.8848, 0.3732, 0.4113

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



44.8864, 0.2258, 0.2828



85.0568, 0.2834, 0.3173



56.7697, 0.2901, 0.4952



17.7723, 0.2791, 0.3154



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



44.8864, 0.2258, 0.2828



54.2233, 0.2145, 0.2712



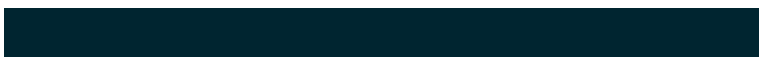
21.0785, 0.2011, 0.1771



15.0115, 0.2982, 0.3235



20.6310, 0.2038, 0.2536



1.5616, 0.2074, 0.2665



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



25.7118, 0.3573, 0.2112



29.0043, 0.3699, 0.1972



50.9715, 0.4297, 0.4405



13.8790, 0.3173, 0.3111



10.9908, 0.3887, 0.1915

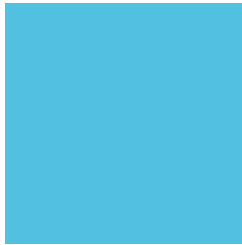


0.7751, 0.3761, 0.1846



# Previews

## White Background



This preview shows how the Yxy color 44.8848, 0.2258, 0.2828 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

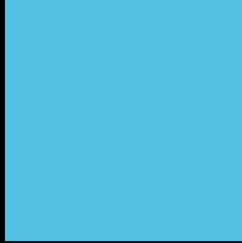
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 44.8848, 0.2258, 0.2828 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 44.8848, 0.2258, 0.2828**

## **Background**



This preview shows how black text looks on a background with the Yxy color 44.8848, 0.2258, 0.2828.



This preview shows how white text looks on a background with the Yxy color 44.8848, 0.2258, 0.2828.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

44.8848, 0.2258, 0.2828

### Protanopia

44.3407, 0.2782, 0.2802

### Deuteranopia

44.1447, 0.2666, 0.2602



## Tritanopia

44.6926, 0.2307, 0.3056

# Trichromacy



**Original Color**

44.8848, 0.2258, 0.2828

**Protanomaly**

43.8362, 0.2541, 0.2806

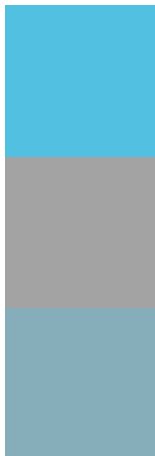
**Deuteranomaly**

43.8834, 0.2476, 0.2671

**Tritanomaly**

44.6240, 0.2291, 0.2973

# Monochromacy



**Original Color**

44.8848, 0.2258, 0.2828

**Achromatopsia**

36.6253, 0.3127, 0.3290

**Achromatomaly**

38.8038, 0.2701, 0.3113

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 44.8848, 0.2258, 0.2828 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(81, 192, 225)` looks like.

```
.text, #text, p{  
    color:rgb(81, 192, 225)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(81, 192, 225) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(81, 192, 225) }
```

## Border

The CSS property to change the border of an element to Yxy 44.8848, 0.2258, 0.2828 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(81, 192, 225) }
```

If only the border color should be changed use the property border-color.

```
.border{ border-color:rgb(81, 192, 225) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel rgb(81, 192, 225) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(81, 192, 225); -webkit-box-  
shadow:4px 4px 4px 4px rgb(81, 192, 225);  
box-shadow:4px 4px 4px 4px rgb(81, 192,  
225) }
```



# Background

The CSS property to change the background color of an element to Yxy 44.8848, 0.2258, 0.2828 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(81, 192, 225) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(81, 192,  
225) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor